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Subject: Hurricane Harvey ESF-10 Texas Situation Report #18 for 09-16-17
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The file name has been updated to reflect the correct situation report number.

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Hurricane Harvey-Texas
ESF-10
Situation Report #18

Subject: SITREP #18
To: Agency Leads
Thru: Maggie Waldon, PSC
From: Unified Command
Date: 9/16/2017
Reporting Period: 9/16/2017

1. Introduction

1.1. Background

Hurricane Harvey made landfall at 2300 ET, August 26th, as a Category 4 storm near Rockport, Texas. Harvey stalled over southeastern TX. Due to its slow motion and a prolonged period of onshore flow, the impacted areas received more than 50 inches of precipitation which subsequently led to catastrophic flooding.

An ESF-10 Mission Assignment was signed on August 28, 2017. The US Environmental Protection Agency (EPA), Texas Commission on the Environmental Quality (TCEQ), Texas General Land Office (TGLO) and the US Coast Guard (USCG) have entered into Unified Command to begin the evaluation, clean-up and recovery of spills, releases, vessels and orphan containers.

2. Current Activities

2.1. Operations Section

On September 16, 2017, Unified Command continued operations in accordance with the Natural Disaster Operational Workgroup (NDOW) Standard Operating Procedures, NDOW forms and Response Manager. The Unified Command is supported by three operational branches: Alpha Branch in Corpus Christi, Bravo Branch in Houston and Charlie Branch in Port Arthur. Hazard Evaluation, Oil Discharge Assessment and Recovery, as well as Orphan Container Evaluation and Recovery teams continued working throughout the Alpha, Bravo and Charlie Branches. Drinking Water (DW) and Waste Water (WW) Assessment teams were active in the Bravo and Charlie Branches.

- EPA's mobile air monitoring Trace Atmospheric Gas Analyzer (TAGA) bus is being used to screen specific areas for target contaminants that are affiliated with the aftermath of Hurricane Harvey. They will continue monitoring force majeure facilities in the Houston and Beaumont areas. See attachment A for updated monitoring schedule.

Mission Assignment:

Request ESF-10 assistance to the State of Texas in support of assessment and response operations to actual or threatened hazardous materials and oil releases/discharges as covered under Category B (Emergency Protective Services) for Public Assistance. The assistance includes response to releases/discharges from fixed facilities, vehicles, intermodal container (to include orphaned containers) and vessels (mobile) sources to remove the threat of imminent danger or contamination to the public that could be caused by any release.

Table 1: Mission Assignments			
Funding Sources	Description	Funding Ceiling	End Date
MA 4332DR-TX-EPA-03	As requested by the State of Texas, provide assessment and emergency response support to the State including water/wastewater treatment plant assessments, aerial assessments	\$10,092,000	9/22/2017
USCG MA D17BA1	USCG will provide oil and hazardous materials field response which may include but not limited to the placement of vessels removed of pollutions to a pre-determined staging area; providing specialized expertise; conducting damage assessment of oil/hazmat waste impact via air and/or water; contractor oversight; evaluating hazards; and/or response, removal, or disposal of: actual and potential oil discharges, and releases of hazardous materials, pollutants and contaminations, and remove pollutants from vessels in or upon navigable waters and adjoining shoreline.	\$20,000,000	9/21/2017

Liaison Officers continue to provide information to the Local Emergency Planning Committees (LEPCs), Emergency Operation Centers (EOC), and Emergency Managers.

No significant information to report from the Public Information Officers.

Table 2: Drinking Water and Waste Water Assessments Evaluated by Phone and On-site		
Assessment Types	Daily Assessments	Total Assessments
On-Site DW Assessments	0	610
On-Site WW Assessment	0	421
Phone DW Assessments	0	6900
Phone WW Assessments	0	4653

Table 3: Field Teams on 9/16/2017 – per IAP #17				
Teams	Alpha	Bravo	Charlie	Total
Hazard Evaluation	0	1	1	2
Oil Discharge Assessment	0	3	0	3
ER/Orphan Container Recovery	1	14	3	18
Oil/Vessel Recovery	5	0	0	5
Staging Areas	1	1	1	3
Air Operations	0	1	0	1
Air Monitoring	0	0	0	0
Water Infrastructure Assessment – DW	0	0	0	0
Water Infrastructure Assessment – WW	0	0	0	0
Totals	7	20	5	32

Table 4: Daily/Cumulative Summary of Hazard Evaluations/Recovery*				
Status	Opened		Closed	
	9/16/2017	Number of Targets Remaining Open	9/16/2017	Cumulative
Alpha Branch	0	5	1	100
Bravo Branch	1	32	35	354
Charlie Branch	1	21	18	108
NRC Reports	0	1	1	4
Totals	2	59	55	566

*The data from Response Manager has undergone a complete QA/QC and data was corrected as necessary. Due to this effort, numbers of targets Open and Closed has changed from previous reports. The data now shows a more accurate picture of targets remaining open and those which have been closed.

Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

Table 5: Waste Received at All Staging Pads to Date						
CONTAINERS					TOTALS	
Date	Drums [55gal]	Small Containers [< 55gal]	Large Containers [> 55gal]	Cylinders	Total Items Collected Today	Total Items Collected Project to Date
9/16/2017	24	22	7	13	66	944
Totals	370	331	23	89		

Table 6: Daily/Cumulative Summary of Spills/Discharges (NON-VESELS)*				
Opened			Closed	
Status	9/16/2017	Number of Facilities/Spills Remaining Open	9/16/2017	Cumulative
Alpha Branch	0	0	0	33
Bravo Branch	0	3	1	75
Charlie Branch	0	7	2	18
NRC Reports	5	18	1	106
Totals	5	28	4	232

*The data from Response Manager has undergone a complete QA/QC and data was corrected as necessary. Due to this effort, numbers of targets Open and Closed has changed from previous reports. The data now shows a more accurate picture of targets remaining open and those which have been closed.

Note: Open means the target is yet to be recovered/cleaned up. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

Table 7: Daily/Cumulative Summary of VESSELS*				
Status	Opened		Closed	
	9/16/2017	Number of Vessels Remaining Open	9/16/2017	Cumulative
Alpha Branch	2	201	1	260
Bravo Branch	0	31	0	41
Charlie Branch	0	48	0	15
NRC Reports	0	3	0	10
Totals	2	283	1	326

*The data from Response Manager has undergone a complete QA/QC and data was corrected as necessary. Due to this effort, numbers of targets Open and Closed has changed from previous reports. The data now shows a more accurate picture of targets remaining open and those which have been closed.

Note: Open means the target is yet to be recovered. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

Other Notable Activities

ALPHA BRANCH

Orphaned containers were transferred to the Staging Area in the Bravo Branch from the Alpha Branch. The Oil/Vessel Discharge Recovery Team continued salvage operations on the Signet Enterprise at Aranas Pass.

BRAVO BRANCH

Oil Discharge Assessment Teams conducted an assessment of an orphan container located in Tomball, TX regarding a leaking orphan container reported to Bravo Branch from Harris County. The orphan container was found without any discharge and was subsequently removed to the Staging Area. The Team also conducted booming operations around a shrimp boat in Dickinson's Bayou. The booming was conducted as a preventive measure to protect against pollution discharge from the vessel.

Twelve ER/Orphan Container Recovery Teams recovered orphan containers and assessed targets in Fort Bend, Walker, Harris, and Montgomery Counties that required specialized equipment, personnel, and/or higher levels of personal protective equipment prior to physical recovery.

CHARLIE BRANCH

ER/Orphan Container Recovery Team 3 removed approximately 430-gallons of diesel from two tanks at Rose City Sand Corp in Vidor and subsequently removed the tanks.

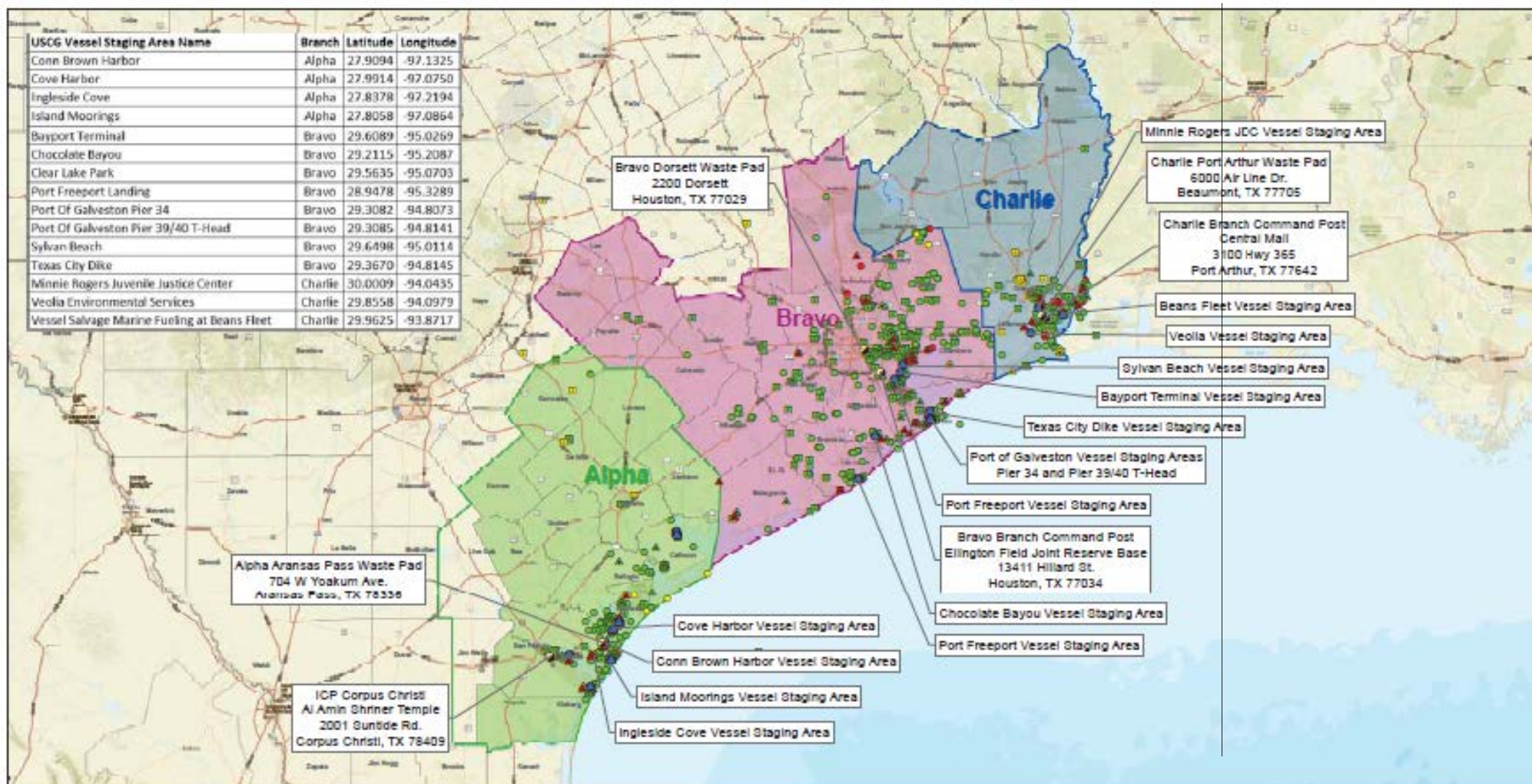
ER/Orphan Container Recovery Team 4 confirmed standing oil still at Display Train Engine in Port Arthur, TX. The Team placed a sorbent boom around the oil.

Participating Agencies

- Texas Commission on Environmental Quality
- Texas General Land Office
- Texas Parks and Wildlife
- US Environmental Protection Agency
- US Coast Guard
- National Oceanic and Atmospheric Agency

3. Personnel On Site

Agency	ICP	Alpha Branch	Bravo Branch	Charlie Branch	Totals
US EPA	5	1	18	7	31
USCG	20	16	26	7	69
TCEQ	2	0	12	5	19
TGLO	2	3	0	0	5
TXSG	0	0	0	0	0
CST	0	0	0	0	0
NOAA	0	0	0	0	0
Contractors	6	2	2	24	34
Totals	35	22	58	43	158



Legend

Federally Declared Counties:

in Alpha in Bravo in Charlie

Incident Command Post (ICP)
/Staging Area

Vessel Staging Location

Facility/Spill Assessment

Haz/Eval Items

Vessels

- Open
- Open - Cleanup in Progress
- Closed

- Open
 - Open
 - Open
 - Closed
- Access Denied/
Leave in Place/
Refer to Other Agency

- Open
- Open - Cleanup in Progress
- Closed

USA EPA REGION 6 SITREP Map Alpha, Bravo, Charlie

Hurricane Harvey Response
September 16, 2017



EPA GIS
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Attachment A

TEAM 1

Day	Date	City	Facilities	FRS #	Miles	Comments	Overnight	Lat	Long	Street address
THU	9/14/17	Deer Park	Shell Deer Park Refinery	110064595399	7.2	reported issues with 3 tanks = G360, G-346 and G342	Houston	29.720611	-95.116639	5900 SH 225 E, DEER PARK
		Deer Park	Shell Deer Park Chemical Plant							
		Deer Park	Vopak Deer Park Terminal	110000757752				29.741093	-95.094145	2459 BATTLEGROUND RD, LA PORTE
FRI	9/15/17	Baytown	Exxon Mobil Baytown Refinery	110000502901	26	sunken roof at tank TK347 and other exceedances reported	Houston	29.739444	-95.006944	2800 DECKER DR, BAYTOWN
		Baytown	Exxon Mobil Baytown Chemical Plant	110000463178		nearby facilities with Enforcement Discretion request		29.73934	-95.022404	5000 BAYWAY DR, BAYTOWN
		Baytown	Exxon Mobil Baytown Olefins Plant	110000463169		nearby facilities with Enforcement Discretion request		29.756256	-95.011032	3525 DECKER DR, BAYTOWN
		Channelview	Equistar Chemicals Channelview Complex (RN100542281)	110000463212		enroute to Baytown, can stop here first; heat exchanger leak		29.833365	-95.11202	8280 SHELTON RD, CHANNELVIEW
		Mont Belvieu	Enterprise Mont Belvieu	110056961480		Known excessive flooding; hit on the way back; startup		29.857573	-94.912893	10207 FM 1942 RD, BAYTOWN
		Pasadena	Phillips 66 Pipeline - Pasadena Product Terminal	110000497800		Hit on the way back to Houston; T-2302 product on roof		29.715552	-95.182761	100 JEFFERSON RD, PASADENA
SAT	9/16/17	Houston	TAGA OFF				Houston			
SUN	9/17/17	Sweeny	Phillips 66 Sweeny Refinery	110007182360	70	Drive public roads around facility	Sweeny	29.070847	-95.750363	8189 OLD FM 524, OLD OCEAN
		Sweeny	Chevron Phillips Sweeny Old Ocean	Need to research		Drive public roads around facility		29.0722778	-95.74470277	
			ConocoPhillips San Bernard Terminal	110000497793		Drive public roads around facility		29.061054	-95.672676	CR 372, SWEENY
MON	9/18/17	Point Comfort	Formosa Plastics	11001892595	61	Drive public roads around the facility (Hwy 1593, Hwy 35) and neighborhood to the southwest of the facility.	Victoria	28.6753	-96.5495	201 FORMOSA DR, POINT COMFORT
			Formosa Plastics Marine Terminal	110033933536				28.66573	-96.5529	101 FORMOSA DR, POINT COMFORT
		Victoria	Invista Victoria	110000464391	31	CD no FM		28.673056	-96.953611	2695 Old Bloomington Rd N, Victoria
TUES	9/19/17	Corpus Christi	Flint Hills West	110000504918	90	Drive public roads around facility	Corpus	27.8271083	-97.52555	2825 SUNTIDE RD, CORPUS CHRISTI
			Valero East	110000501993		Drive public roads around facility		27.810775	-97.436658	1300 CANTWELL LN, CORPUS CHRISTI
		Corpus Christi	Equistar	110000465069	7	Drive public roads around facility		27.81	-97.59361111	1501 MCKINZIE RD, CORPUS CHRISTI
			Equistar Chemicals Dock Facility	110008169597		Drive public roads around facility		27.840311	-97.520126	1740 MARVIN BERRY RD, CORPUS CHRISTI
WED	9/20/17	Corpus Christi	Flint Hills East	110038173981		Drive public roads around facility	Corpus	27.804444	-97.424444	1607 NUESCES BAY BLVD, CORPUS CHRISTI
		Corpus Christi	Citgo East	110000505640		Drive public roads around facility		27.810556	-97.426944	1801 NUESCES BAY BLVD, CORPUS CHRISTI
		Corpus Christi	Citgo West	110000465041		Drive public roads around facility		27.8103	-97.49828	7350 Interstate Hwy 37, Corpus Christi
		Corpus Christi	Valero West	110000465103		Drive public roads around facility		27.81775	-97.482552	5900 UP RIVER RD, CORPUS CHRISTI
THU	9/21/17	Three Rivers	Valero Three Rivers	110000464462	73	Drive public roads around facility	Victoria	28.456667	-98.190277	301 LEROY ST., THREE RIVERS
					89	Drive back to Victoria				
FRI	9/22/17				127	Return to Houston				

TEAM 2										
Day	Date	City	Facilities	FRS #	Miles	Comments	Overnight	Lat	Long	Street address
MON	9/18/17	Port Arthur	Flint Hills Port Arthur	Cant find a Flint Hills Port Arthur. Motiva?	100	Drive Houston to Port Arthur	Beaumont/ Pt Arthur	29.8927778	-93.97333333	
		Port Arthur	Total Petrochemicals Port Arthur Refinery	110000755200		Drive public roads around facility		29.98046	-93.883139	HWY 366 & 32nd ST, PORT ARTHUR
		Port Arthur	Valero (Premcor) Port Arthur Refinery	110000464006		Drive public roads around facility		29.868333	-93.968333	1801 GULFWAY DR, PORT ARTHUR
		Port Arthur	Motiva Port Arthur Refinery	110000464024		Drive public roads around facility		29.883333	-93.958333	2555 SAVANNAH AVE, PORT ARTHUR
		Port Neches	Oiltanking - Motiva Port Neches Terminal	110000599576		Drive public roads around facility		29.973553	-93.939461	100 E PORT NECHES AVE, PORT NECHES
		Port Neches	Shell Pipeline - Crude Product (RN103017521)	Not major source? No FRS? Is this the Motiva terminal?	11	STEERS report - IFR Tank 217 (crude) - liquid on surface of IFR. Need to follow-up to see if emptying tank. (Rptd 5400 lbs crude released yet stating tank is isolated.)				100 E PORT NECHES AVE, PORT NECHES
		Port Neches	Huntsman Petrochemical Port Neches Facility (RN100219252)	110000599567		Tank T-220 - 1000 lb MTBE to containment		29.990148	-93.946735	6001 HWY 366, PORT NECHES
TUE	9/19/17	Beaumont	ExxonMobil Beaumont Refinery	110041990913	22	Drive public roads around facility	Beaumont/ Pt Arthur	30.065833	-94.071388	1795 BURT ST, BEAUMONT
		Beaumont	ExxonMobil Beaumont Polyethylene	110009495901		Drive public roads around facility		30.068247	-94.23005	11440 HWY 90 W, BEAUMONT
		Beaumont	ExxonMobil Beaumont Colonial Storage	110005052441		Drive public roads around facility		29.961052	-94.046296	13300 W PORT ARTHUR RD, BEAUMONT
			BASF Beaumont	110000464239		Drive public roads around facility		29.971389	-94.053333	14385 W PORT ARTHUR RD, BEAUMONT
			Sunoco Hebert Terminal	110000464177		Drive public roads around facility		29.984127	-94.060676	15651 W PORT ARTHUR RD, BEAUMONT
			Motiva Beaumont Terminal	110033528644		Drive public roads around facility		29.946666	-94.03761	9406 W. PORT ARTHUR RD, BEAUMONT
		Beaumont	Clark Port Arthur Pipeline Company	110009771390		drive public roads around facility		29.975	-94.058333	W PORT ARTHUR RD, 5.5MI, BEAUMONT
		Beaumont	ExxonMobil Beaumont Chemical Plant	110000464131		Drive public roads around facility		30.061002	-94.068815	2775 GULF STATES ROAD, BEAUMONT
		Beaumont	Neches Terminal	110008060622		Drive public roads around facility		30.057402	-94.040144	1 GULF STATES ROAD, BEAUMONT, TX
			Neches Terminal / Neches West	110034786346		Drive public roads around facility		30.061303	-94.048386	1 GULF STATES ROAD, BEAUMONT, TX
			BEAUMONT MARINE WEST TERMINAL	110007200457		Drive public roads around facility		30.021476	-94.048882	6215 HWY 347, BEAUMONT
WED	9/20/17	Orange	Invista Orange	110022523982	30	Drive public roads around facility	Beaumont/ Pt Arthur	30.054167	-93.752208	3055 A FM 1006, ORANGE
			Chevron Phillips Chemical - Polyethylene Plant	110034635367		Drive public roads around facility		30.046111	-93.780556	5309 FM 1006, ORANGE
			Firestone Orange	110064446531		Drive public roads around facility		30.054607	-93.789228	5713 FM1006, ORANGE
THU	9/21/17	Texas City	Valero Texas City	110032911669	44	Drive Houston to Texas City		29.369167	-94.911111	1301 LOOP 197 S, TEXAS CITY
		Texas City	Marathon Texas City (There are 3 FRSs for Marathon, Blanchard, and BP but only 2 facilities)	Need to research.	1	Drive along 5th Ave. (north of facilities), Hwy 146 (west of facilities), Hwy 519 (south of facilities), Hwy 197 (east of Blanchard), and in neighborhoods north of the facilities		29.378359	-94.909288	502 10th Street S, Texas City
		Texas City	Blanchard Refinery	110028042188	2			29.379167	-94.929167	2401 5th AVE S, TEXAS CITY
FRI					44	Return to Houston				

FRI